CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON BITUMINOUS MACADAM MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of the Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	20/04/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-4 for BM Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
26.5	100	**100**	**Satisfies the requirement.**
19	90-100	**98.4**	
13.2	56-88	**72.4**	
4.75	16-36	**27.6**	
2.36	4-19	**16.5**	
0.3	2-10	**8.9**	
0.075	0-8	**6.8**	

Note:

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AE-03

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Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of the agency	M/s. Technical Manager (West), KRIDL
Date of Testing	20/04/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-4 for BM Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
26.5	100	**100**	**Satisfies the requirement.**
19	90-100	**97.8**	
13.2	56-88	**73.5**	
4.75	16-36	**28.4**	
2.36	4-19	**17.6**	
0.3	2-10	**8.4**	
0.075	0-8	**6.6**	

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TEST REPORT

TEST ON DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	23/04/2017

A)

Sl. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	Test Method A (Centrifuge Method)	ASTM: D2172/ D2172M-11
2	Determination of amount of mineral matter/fines in the extract	Ashing Method	

B)

Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	2000.00
2	Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1874.68
3	Weight of mineral matter in the total volume of extract (by ashing), W_3 g	12.86
4	Total weight of aggregate in the bituminous mixture, W_4 g = (W_2 +W_3) g	1887.54
5	Total weight of Bitumen extracted from the mixture, W_5 g = (W_1-W_4) g	112.46
6	Bitumen content in %, (W_5/W_1) %	5.62

Remarks	**Satisfies the requirement.**

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AEW3

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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

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Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	23/04/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirements**
13.2	79-100	**97.4**	
9.5	70-88	**83.5**	
4.75	53-71	**62.2**	
2.36	42-58	**47.8**	
1.18	34-48	**40.1**	
0.6	26-38	**32.2**	
0.3	18-28	**23.5**	
0.15	12-20	**18.4**	
0.075	4-10	**8.4**	

AE W3

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TEST REPORT

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Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Date of Testing	23/04/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sample-2		Remarks
	% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2	Actual % By Weight Passing IS Sieve	
19	100	100	Satisfies the requirements
13.2	79-100	98.4	
9.5	70-88	84.5	
4.75	53-71	61.2	
2.36	42-58	46.5	
1.18	34-48	41.2	
0.6	26-38	33.5	
0.3	18-28	24.1	
0.15	12-20	17.8	
0.075	4-10	9.1	

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Countersigned AEE

AEE 3

Khushboo

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Quality Manager

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CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

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T-2654

To,

Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP.

02nd May 2017

Dear Sir,

Sub: Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE W3
11/5

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT
COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	150.03 X 150.06 X 150.0	22514	02/04/2017	30/04/2017	28	8.15	352	15.64	15.73
2		150.03 X 150.07 X 150.0	22515				8.17	356	15.82	
3		150.04 X 150.09 X 150.0	22520				8.19	354	15.73	

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TEST REPORT
COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Satellite Sub Division, BBMP.
Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Kerb Stone)	150.02 X 150.05 X 150.0	22511	02/04/2017	30/04/2017	28	8.18	362	16.09	16.18
2		150.05 X 150.03 X 150.0	22512				8.19	366	16.27	
3		150.03 X 150.04 X 150.0	22511				8.20	364	16.18	

AE 3

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TEST REPORT
COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

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Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-1	150.03 X 150.03 X 150.0	22509	02/04/2017	30/04/2017	28	8.16	485	21.56	21.63
2		150.05 X 150.05 X 150.0	22515				8.17	480	21.33	
3		150.02 X 150.05 X 150.0	22511				8.19	495	22.00	

AE W3

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TEST REPORT
COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

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Name of Work	Asphalting to roads and Improvements to drains in Yelahanka 4th Phase, SFS 407, SFS 208, SFS 707 main and cross roads and some part of Ananthapura village of Attur watrd no. 03.
Name of Agency	M/s. Technical Manager (West), KRIDL
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2	150.02 X 150.03 X 150.0	22508	02/04/2017	30/04/2017	28	8.15	480	21.33	21.63
2		150.03 X 150.06 X 150.0	22514				8.17	485	21.56	
3		150.04 X 150.04 X 150.0	22512				8.19	495	22.00	

AE W 3

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Name of Agency	M/s. Technical Manager (West), KRIDL
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-3	150.03 X 150.03 X 150.0	22509	02/04/2017	30/04/2017	28	8.16	485	21.56	21.93
2		150.02 X 150.04 X 150.0	22509				8.18	495	22.00	
3		150.04 X 150.03 X 150.0	22511				8.20	500	22.22	

AEW3

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